



Pie Graph of Eye Colour Using Paper Folding

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: (select year)

Sample size: 96 students

Select questions: Eye colour

Location: Select location

Year level:

(select a range of year levels)

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

Task:

In the CensusAtSchool random sample find the data for eye colour.

1. Record each colour and the frequency of students in a table like the one below.

Eye Colour	Tally	Frequen cy	Fraction	Common fraction (see below)
Brown				
Green				
Hazel				
Blue				
Grey				
Other				

2. There are 96 students in your sample. From a total of 96, what number is represented by these common fractions?

a) one half of 96

b) one fourth of 96

c) one eighth of 96

d) one fifth of 96

e) one tenth of 96

f) one third of 96

3. In the fifth column in the table write the common fraction that each of your eye colours is closest to. For example, if you had 47 brown-eyed students in your sample this is very close to, but a little less than, one half of the

students. You could write “nearly $\frac{1}{2}$ ”

CensusAtSchool Random Sampler <http://www.cas.abs.gov.au/cgi-local/cassampler.pl>

Access other similar lessons at <http://www.abs.gov.au/censusatschool>



- 4.** Ask your teacher for a coloured circle of paper. Using paper folding techniques, make folds in your circle to help you to show the fraction for each of the eye colours you found in your sample.